

## Appendix B

### Chicopee WPCF Secondary Treatment Bypass Disinfection Facility—Interim Limits and Monitoring Requirements

Note: Unless otherwise directed, all required monitoring samples are to be from this disinfection facility's effluent only, prior to this effluent recombining with the secondary effluent from the WPCF.

Parameter	Effluent Limits Maximum Daily	Effluent Limits Monthly Average	Monitoring Requirements
Fecal Coliform *1, *2	400 fcu/100 ml	200 fcu/100 ml (geometric mean)	Hourly samples for at least one bypass event/month. For all other bypass events, at least one grab sample/event.
Total Residual Chlorine (TRC) *1 (after de-chlorination)	1.00 mg/l	0.89 mg/l	Each bypass event. One grab sample/event within one hour of overflow, and one additional grab sample every 4 hours thereafter during manned operations.
<i>The Parameters below are Report only</i>			
Parameter	Report		Monitoring Requirements
Chlorine residual in CCT *1 (before de-chlorination)	Report mg/l of total residual chlorine at discharge end of chlorine contact tank (CCT), prior to de-chlorination		Each bypass event. One grab sample/event within one hour of overflow, and one additional grab sample every 4 hours thereafter during manned operations.
E. coli *1, *2	Report colonies/100 ml. Report results of E. coli beside results of fecal coliform samples		Hourly samples for at least one bypass event per month, coinciding with hourly fecal coliform samples.
pH	Report		Once/month. One grab sample per event.
BOD *3	Report mg/l and pounds/day		Once/month, during any month with bypass event. Time proportioned composite sample.
TSS *3	Report mg/l and pounds/day		Once/month, during any month with bypass event. Time proportioned composite sample.
Ammonia Nitrogen, NO3, NO2, TKN	Report mg/l and pounds/day		Once/6 months. Time proportioned composite sample.
Acute Toxicity *4	LC 50		Once/6 months. Time proportioned composite sample.
Rainfall	Report inches of rainfall/day		Each rain event, as recorded at WWTP.
Flow from Facility (to River, and flow drained back to secondary treatment)	<u>From Facility to River:</u> Total daily flow (gallons), maximum hourly flow (gallons/minute), and duration of overflow (hours) <u>From Facility to Secondary Treatment:</u> Total flow drained from facility (gallons)		Each wet weather event. Continuous effluent flow recorder.  (Note: Flow drained from facility to secondary treatment should only occur when WWTP flows are below 25 MGD)

See following page for explanation of footnotes # \*1 through \*4.

**WPCF Secondary Treatment Bypass Disinfection Facility—Interim Limits and Monitoring Requirements**  
**Explanation of Footnotes # \*1 through \*4**

- \*1:** Fecal coliform, TRC, and E. coli monitoring are only required seasonally at this WPCF Bypass Facility during the same period that the adjacent WPCF is required to provide seasonal chlorination disinfection, as stipulated in the WPCF NPDES Permit. The current WPCF NPDES Permit (to expire July 2010) requires disinfection April 1<sup>st</sup> through October 31<sup>st</sup>. Should subsequent WPCF NPDES Permits extend the chlorination disinfection period, the requirements for fecal coliform, TRC, and E. coli monitoring at this Bypass Facility are likewise extended.
- \*2:** For the first 2 years of operation of this facility, hourly E. coli bacteria samples are required to be taken coincident with the hourly fecal coliform samples, for at least one bypass event per month (April through October). Results of the E. coli samples are to be reported side by side with results of fecal coliform samples. After 2 years of operation, the hourly E. coli bacteria samples can be eliminated, while the requirement for hourly fecal coliform samples will continue.
- \*3:** For the first 2 years of operation of this facility, the monthly BOD and TSS samples taken from the bypass disinfection facility's effluent will be in addition to the BOD and TSS samples of WPCF primary effluent required by EPA Administrative Order 97-32. Presently, BOD and TSS samples of WPCF primary effluent are taken 5 days per week. After 2 years of operation of this facility, the requirement for monthly BOD and TSS samples taken from the bypass disinfection facility's effluent shall continue; however, the City may request at that time a reduction or elimination of the EPA Administrative Order 97-32 requirement of BOD and TSS samples from the WPCF primary effluent.
- \*4:** LC 50 to use fathead minnows (pimephales promelas). Outfall composite and receiving water samples and analysis are not required for this facility. Information regarding outfall composite and receiving water samples and analysis are available as part of the WPCF secondary effluent toxicity testing required under the WPCF NPDES permit.